

Using machine learning to predict antigen archiving

Question

Can we identify cells that archive antigen for samples that did not receive an Ag-tag?



1. Identify Ag-high cells

- Inject mouse with Ag-tag
- Harvest draining lymph node
- Perform scRNA-seq

2. Train model

Split cells into training/testing groups

Train random forest classifier

Test model classifier

3. Predict archiving-competent cells

- Predict treatments/perturbations that impair archiving
- Design new experiments and verify

